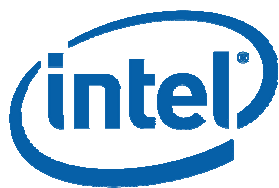




Intel[®] Server Board *SE7520BB2*

Tested Hardware and Operating System List



Revision 1.0

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Enterprise Platforms and Services Marketing

Revision History

| Date | Revision Number | Modifications |
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1. Introduction

This document is intended to provide users of the Intel® server board *SE7520BB2* with a guide to the different operating systems, adapter cards, and peripherals tested by Intel on this platform.

This document will continue to be updated as new adapters, peripherals, and operating systems are tested or until the Intel® server board *SE7520BB2* is no longer in production. Each new release of the document will present updated information as well as continue to provide the information from previous releases.

Intel will only provide support for those adapters and peripherals under the specified system configuration (System BIOS and Firmware revisions) and operating systems versions with which they were tested.

1.1 Test Overview

Testing performed on the Intel® server board *SE7520BB2* is classified under two separate categories: Basic Installation Testing, and Adapter / Peripheral Compatibility and Stress Testing.

1.1.1 Basic Installation Testing

Basic installation testing is performed with each supported operating system. Basic installation testing validates that the server board can install the operating system and that the base hardware feature set is functional. A small set of peripherals is used for installation purposes only. No add-in adapter cards are tested. Testing includes network connectivity and running of proprietary and industry standard test suites.



The latest version of an operating system signifies the latest supported version at the time of the actual test run. Each new release of this document may have a newly supported release of a given operating system. Previous releases of a supported operating system may not be tested beyond the basic installation test process.

1.1.1.1 Support Commitment for Basic Installation Testing

Intel commits to provide the following level of customer support for operating systems that receive only basic installation testing:

- Intel will provide and test operating system drivers for each of the server board's integrated controllers, provided that the controller vendor has a driver available upon request. Vendors will not be required by Intel to develop drivers for operating systems that they do not already support. This may limit the functionality of certain server board integrated controllers.
- Intel will support customer issues that involve installation and/or functionality of operating system with the server board's integrated controllers only if a driver has been made available.

- Intel will NOT provide support for issues related to use of any add-in adapters or peripherals installed in the server system when an operating system that received basic installation testing only is in use.
- Support is defined as assistance in root causing issues, and determining a customer acceptable resolution to the issue associated with the operating system. The resolution may include, but is not limited to, on-board controller driver changes, engaging the vendor for resolution, BIOS changes, firmware changes, or determining a customer acceptable workaround for the issue.

1.1.2 Adapter / Peripheral Compatibility and Stress Testing

Adapter / Peripheral Compatibility and Stress testing is performed only on the most current release of a supported operating system at the time of a given validation run. The Adapter / Peripheral Compatibility and Stress testing process consists of three areas: Base Platform, Adapter Compatibility, and Stress.

Base Platform: Each base platform will successfully install a given operating system, successfully run a disk stress test, and successfully run a network stress test.

Adapter Compatibility: Adapter compatibility validation (CV) testing uses test suites to gain an accurate view of how the server performs with a wide variety of adapters under the primary supported operating systems. These tests are designed to show hardware compatibility between the cards and the server platform and include functional testing only. No heavy stressing of the systems or the cards is performed for CV testing.

Stress Testing: This test sequence uses configurations that include add-in adapters in all available slots, (depending on chassis used) for a minimum 72-hour test run without injecting errors. Each configuration passes an installation test, a Network/Disk Stress test, and tape backup test. Any fatal errors that occur will require a complete test restart.

1.1.2.1 Support Commitment for Adapter / Peripheral Compatibility and Stress Testing

Intel commits to provide the following level of customer support for operating systems that receive Adapter / Peripheral Compatibility and Stress testing:

- Intel will provide support for customer issues with these operating systems involving installation and/or functionality of the server board with or without the adapters and peripherals listed in this document as having been tested under the particular operating system.
- Support is defined as assistance in root causing issues, and determining a customer acceptable resolution to the issue associated with the operating system. The resolution may include, but is not limited to, on-board controller driver changes, engaging the vendor for resolution, BIOS changes, firmware changes, or determining a customer acceptable workaround for the issue.
- Intel will provide and test operating system drivers for each onboard video, network, and storage controller.
- Intel will enable vendors to provide driver support for add-in adapters using these operating systems.

- Intel will go through some of the steps to achieve certification to ensure its customers do not run across any problems, but the actual certification is the responsibility of the individual customer.



For operating systems, adapter cards, and peripherals not listed in this document, there is no support commitment. Intel will consider support requests on a case-by-case basis.

1.2 Pass/Fail Test Criteria

For each operating system, adapter, and peripheral configuration, a test passes if specific criteria are met. Specific configurations may have had particular characteristics that were addressed on a case-by-case basis. In general, a configuration passes testing if the following conditions are met:

- The operating system installed without error.
 - Manufacturer's installation instructions or Intel's best-known methods were used for the operating system installation.
 - No extraordinary workarounds were required during the operating system installation.
 - The server system behaved as expected during and after the operating system installation.
 - Application software installed and executed normally.
- Hardware compatibility tests ran to completion without error.
- Test software suites executed successfully
 - Test and data files were created in the correct directories without error.
 - Files copied from client to server and back compare to the original with zero errors reported.
 - Clients remain connected to the server system.
 - Industry standard test suites run to completion with zero errors reported.

All Intel® server board *SE7520BB2* testing was performed using generic validation test vehicles specifically designed for board level testing. The Intel® Server Board *SE7520BB2* is not compatible in any Intel® Chassis product. The Intel® Server Board *SE7520BB2* is compatible with specific third-party chassis products. Please see the "Reference Chassis List" on the Intel® server support website for details regarding server board compatibility with third-party chassis.

2. Intel® Server Board SE7520BB2 Base System Configurations

The following table lists the base system configurations tested. Base system configurations will change as new revisions of the Intel® server board *SE7520BB2* are released and/or new system BIOS and BMC firmware are cut onto the board in the factory. Each base system configuration is assigned an identifier number that is referenced in the tables throughout this document. New base system configurations are added with each new release of this document.



Intel will only provide support for adapters and peripherals under the specified base system configuration and operating systems versions with which they were tested.

| Base System Configuration Identifier # | Board Type | PBA Number | BIOS Revision | BMC Firmware Revision | FRU/SDR | Notes |
|--|------------|------------|---------------|-----------------------|---------|-------|
| 1 | SE7520BB2 | D34947-302 | P01 | 2.40 | 1.08 | |
| 2 | SE7520BB2 | D34947-302 | P02 | 2.40 | 1.08 | |

3. Supported Operating Systems

The following table provides a list of supported operating systems for the Intel® server board *SE7520BB2*. Each of the listed operating systems was tested for compatibility with Intel® server board *SE7520BB2* base system configuration listed in Section 2 of this document. Operating systems are supported only with the specified base system configuration(s) with which they were tested.

The following table also indicates whether each operating system received Basic Installation Testing, or Adapter / Peripheral Compatibility and Stress Testing. For information on the support commitments for Basic Installation Testing vs. Adapter / Peripheral Compatibility and Stress Testing, please reference Section 1 of this document.

Any variations to the standard operating system installation process are documented in the Installation Guidelines section of this document. If there is no installation guidelines noted in the following table, then the operating system installed as expected using manufacturer's installation instructions or Intel's best-known methods.



Operating systems supported by Intel® Server Management software or LANDesk* Client Manager software may be different than the operating systems supported by the Intel Server Board *SE7520BB2*. Please reference the Readme and User Guide documents that are included as part of each Intel Server Management and LANDesk* Client Manager distribution for operating systems that are supported by that release.

| Operating System | Base System Configuration Tested & Type of Testing | Notes |
|--|--|-------|
| Red Hat Enterprise Linux 4.0, Update 2 | Compatibility & Stress | |
| Microsoft Windows Server 2003 Enterprise Edition | Compatibility & Stress | |
| SuSE 9 Enterprise Linux, Service Pack 2 | Compatibility & Stress | |
| Red Hat Enterprise Linux 3.0, Update 6 | Basic Installation | |

3.1 Operating System Certifications

Listed below are the operating systems that Intel will certify with the Intel® server board S7320VP2. However, the customer is responsible for their own certification from the individual operating system vendors. In many cases, the customer may leverage their operating system certifications from Intel's testing. See the "Comments" section next to each operating system in the table below for additional information. Intel's certifications, pre-certification, and operating system testing may help reduce some of the risk in achieving customer certifications with the operating system vendors.

| Operating System | Certification Listing | Comments |
|--|-----------------------|----------|
| Microsoft Windows Server 2003 Enterprise Edition | In process | |
| RedHat Enterprise Linux 4.0 | In process | |
| SuSE 9.0 Enterprise Linux | In process | |

4. Adapters and Peripherals

Add-in adapter card and peripheral compatibility and stress testing will only be performed with the latest version of an operating system at the time the validation testing occurred. The following table shows the operating system and base system configurations used to validate each device. The adapters are divided into categories based on their functionality. All integrated on-board devices are tested by default and are therefore not included in the following tables.

Note that not all adapter cards were tested under all operating systems. The following notation is used in the tested adapters and peripherals table below to indicate the support level that Intel provides for a particular adapter under a particular operating system:

| | |
|-------------------------------|--|
| Number (i.e. 1) | This adapter or peripheral has been tested and is supported under the specific configuration identified in the Base System Configurations Table in Section 2 of this document. |
| Number in brackets (i.e. [1]) | This adapter or peripheral has been tested, but is NOT supported under the specific configuration identified in the Base System Configurations Table in Section 2 of this document. |
| NT | This adapter or peripheral has not been tested under this operating system and is not supported under this operating system. |
| ND | This adapter or peripheral has not been tested under this operating system due to limitations in IHV driver availability, and is not supported under this operating system. |
| SA (Similar Adapter) | This adapter is supported, but not tested. This adapter model has not been tested with this server board, but Intel will support it based on successful testing of a similar adapter from the same adapter family. Intel has high confidence that this adapter will function correctly with the server board. This adapter uses the same firmware and drivers, and has a nearly identical system interface to another adapter of the same family that has been successfully tested with this server board. In addition, Intel has secured IHV commitment to support the similar adapters equally. Customers should always test adapters as part of the final system configuration prior to deployment. All installation guidelines for the tested adapter also apply to the similar adapter. |

Any variations to the standard adapter installation process or to expected adapter functionality are documented in the Installation Guidelines section of this document. If there are installation guidelines affecting a particular adapter and operating system combination, these are referenced in the following table. If there are no installation guidelines noted in the following table, then the adapter installed and functioned as expected using manufacturer's installation instructions or Intel's best-known methods.



Testing of adapters cards normally is performed with unused add-in adapters and onboard controller expansion ROMs disabled in BIOS Setup. Intel recommends that customers disable the option ROM for add-in controllers and/or the on-board controllers when not booting from the controller or needing to use its built in utilities.

| Manufacturer | Model Name | Model Number | Interface | Comments | Microsoft Windows Server 2003 | Red Hat Enterprise Server 4.0 | SuSE 9 Enterprise Linux |
|------------------------------|---|---------------------|----------------|-----------------------------|-------------------------------|-------------------------------|-------------------------|
| 4.1 PCI SATA RAID | | | | | | | |
| AMCC / 3Ware | 9500S-8 (PCI-Med) | 9500S-8 | PCI-X 64/66 | SATA RAID, 8 channel | 1 | 1 | 1 |
| Intel | SRCS28X (PCI-Short) | SRCS28X | PCI-X 64/133 | SATA RAID, 8 channel | 1 | 1 | 1 |
| LSI Logic | MegaRAID SATA 150-6 (PCI-Short) | MegaRAID SATA 150-6 | PCI 64/66 | SATA RAID, 6 channel | 1 | 1 | [1] |
| 4.2 PCI SCSI RAID | | | | | | | |
| Intel | SRCU41L (PCI-LP/RP) | SRCU41L | PCI 64/66 | U320, 2 channel | 1 | 1 | 1 |
| Intel | SRCU42E (PCI-Med) | SRCU42E | x8 PCI Express | U320, 2 channel | 1 | 1 | 1 |
| Intel | SRCU42X (PCI-Short) | SRCU42X | PCI-X 64/133 | U320, 2 channel | 1 | 1 | 1 |
| 4.3 PCI SCSI | | | | | | | |
| LSI Logic | LSI22320-R (PCI-Short) | LSI22320-R | PCI-X 64/133 | U320, 2 channel | 1 | 1 | 1 |
| 4.4 PCI Fiber Channel | | | | | | | |
| Emulex | LP10000ExDC (PCI-Short) | LP982-F2 | x4 PCI-Express | 2 channel 2Gb | 1 | 1 | [1] |
| Qlogic | QLA2342 (PCI-Short) | QLA2342 | PCI-X 64/133 | 2 channel 2Gb | 1 | 1 | 1 |
| 4.5 PCI NIC | | | | | | | |
| Intel | PRO/100+ S Server Adapter(PCI-Short) | PILA8470D3 | PCI 32/33 | | 1 | 1 | 1 |
| Intel | PRO/100+ S Server Adapter (PCI-Short) | PILA8470C3 | PCI 32/33 | | SA | SA | SA |
| Intel | PRO/1000MT Gigabit Server Adapter (PCI-LP/RP) | PWLA8490MT | PCI-X 64/133 | | 1 | 1 | 1 |
| Intel | PRO/1000MT Gigabit Server Adapter (PCI-LP/RP) | PWLA8490MF | PCI-X 64/133 | 100baseLC, Fiber, No bridge | SA | SA | SA |
| Intel | PRO/1000XT Gigabit Server Adatper | PWLA8490XT | PCI-X 64/133 | PCI short | 1 | 1 | 1 |

| Manufacturer | Model Name | Model Number | Interface | Comments | Microsoft Windows Server 2003 | Red Hat Enterprise Server 4.0 | SuSE 9 Enterprise Linux |
|------------------------------------|---|--------------|----------------|-----------------------------|-------------------------------|-------------------------------|-------------------------|
| Intel | PRO/1000XT Gigabit Server Adatper | PWLA8490XF | PCI-X 64/133 | 1000baseSX, Fiber | SA | SA | SA |
| Intel | PRO/1000XT Gigabit Server Adatper | PWLA8490XFL | PCI-X 64/133 | LP, 10/100/1000 baseT | SA | SA | SA |
| Intel | PRO/1000XT Gigabit Server Adatper | PWLA8490XTL | PCI-X 64/133 | LP, 10/100/1000baseT | SA | SA | SA |
| Intel | PRO/1000MT Dual Port Gigabit Adapter | PWLA8492MT | PCI-X 64/133 | LP/RP | 1 | 1 | 1 |
| Intel | PRO/1000MT Dual Port Gigabit Adapter | PWLA8492MF | PCI-X 64/133 | Dual port, Fiber, No bridge | SA | SA | SA |
| Intel | PRO/1000MT Quad Port Gigabit Adapter | PWLA8494MT | PCI-X 64/133 | Dual port, Fiber, No bridge | 1 | 1 | 1 |
| Sysconnect | SK-9E22 (PCI-Short) | SK-9E22 | x4 PCI-Express | 2 Port 1GB LAN | 1 | 1 | 1 |
| 4.6 Modems | | | | | | | |
| 3COM | USR5610B 56K V.92 Performance Pro (PCI-Short) | USR5610B | PCI 32/33 | | 1 | 1 | 1 |
| 4.7 Human Interface Devices | | | | | | | |
| Keytronic | PROPilot | PROPilot | PS/2 | Keyboard | 1 | 1 | 1 |
| Logitech | Optical Mouse | 930582-0121 | PS2 and USB | Mouse | 1 | 1 | 1 |
| Logitech | Internet Navigator | 967233-0121 | PS2 and USB | Keyboard | 1 | 1 | 1 |
| Microsoft | Intellimouse Optical | B75-00092 | PS2 and USB | Mouse | 1 | 1 | 1 |
| Rainbow | Sentinal Duo Hardware Key | Sentinal Duo | USB | USB Security Key | 1 | 1 | NT |
| 4.8 CD R/RW Drives | | | | | | | |
| Mitsumi | SR244W1 | SR244W1 | ATA 33 | 24x Slimline | 1 | 1 | 1 |
| Samsung | TS-L462A | LS-462A | ATA 33 | IDE Slimline | 1 | 1 | 1 |
| Teac | DW-224E-C83 | DW-224E-C83 | ATA 33 | IDE Slimline | 1 | 1 | 1 |
| 4.9 DVD ± R/RW Drives | | | | | | | |
| Lite On | SOSC-2482K | SOSC-2482K | ATA 33 | IDE Slimline | 1 | 1 | 1 |
| Pextor | PX-716SA | PX-716SA | SATA | Slimline DVD | 1 | 1 | 1 |

| Manufacturer | Model Name | Model Number | Interface | Comments | Microsoft Windows Server 2003 | Red Hat Enterprise Server 4.0 | SuSE 9 Enterprise Linux |
|-------------------------------|--------------------------|--------------|-------------|---------------------|-------------------------------------|-------------------------------------|-------------------------------|
| 4.10 Removable Devices | | | | | | | |
| Lexar | 1GB USB Flash Drive | JD1GB-80-231 | USB 2.0 | External | 1 | 1 | 1 |
| IOMega | Micro Mini 1GB Drive | SKU 33136 | USB 2.0 | External | 1 | 1 | 1 |
| Sony | VAIO External USB floppy | PCGA-UFD5 | USB | 3.5" Floppy drive | 1 | 1 | 1 |
| Teac | FDO5PUB | FDO5PUB | USB | 1.44MB, 3.5" Floppy | 1 | 1 | 1 |
| 4.11 KVM | | | | | | | |
| Avocent | DSR 1021 | 1021 | PS/2 KVM/IP | 8 port | 1 | 1 | 1 |
| Belkin | Omniview PRO2 | F1DA108T | PS/2 | 8 port | 1 | 1 | 1 |
| 4.12 Video Controller | | | | | | | |
| ATI | RADEON 7000 (PCI-Med) | RADEON 7000 | PCI 32/33 | VGA | 1 | 1 | 1 |

5. Hard Disk Drives

The hard drives listed in the following table have been tested with the Intel® server board SE7520BB2 by Intel in its validation labs and/or by individual drive vendors. The following operating system identifiers are used in the table to specify which OS each drive was tested under.

| Identifier number | Operating System |
|-------------------|---|
| 1 | Microsoft Windows* Server 2003 Enterprise Edition |
| 2 | Red Hat Enterprise Server 4.0 |
| 3 | SuSE 9.0 Enterprise Linux |

Note that not all hard drives were tested under all operating systems. The following notation is used in the tested hard drives table below to indicate the support level that Intel provides for a particular hard drive with a particular operating system:

| | |
|-------------------------------|--|
| Number (i.e. 1) | This hard drive has been tested and is supported under the operating system identified by the operating system identification number. |
| Number in brackets (i.e. [1]) | This hard drive has been tested, but is NOT supported under the operating system identified by the operating system identification number. |
| SD (Similar Drive) | The hard disk drive is supported, but not tested. This hard drive model/capacity has not been tested with this server board, but Intel will support it based on successful testing of a larger capacity hard drive from the same hard drive family. Intel has high confidence that this hard drive will function correctly with the server board. This drive uses the exact same firmware and drivers as a larger capacity hard drive that has been successfully tested with this server board. The only difference between this drive and the one that was used in testing is the storage capacity. Intel provides the same level of support for all hard drives listed in this document, regardless of whether the drive was tested or not. Customers should always test hard drives as part of the final system configuration prior to deployment. Given the fact that a larger capacity hard drive from the same drive family has successfully completed testing on this server board, this particular hard drive capacity point will not be tested. |
| IHVT (IHV Tested) | The hard disk drive was tested according to Intel-approved guidelines and test procedures by the Independent Hardware Vendor (IHV) that manufactured the drive. Intel provides the same level of support for all hard drives listed in this document, regardless of whether the drive was tested in an Intel lab or not. IHV test reports remain the property of the IHV (Intel cannot provide copies of these reports). |

| Manufacturer | Product Family | Model Number | Interface | RPM | Drive size (GB) | Tested Operating Systems | Notes |
|--|-------------------|-----------------|------------------|--------|-------------------|--------------------------|-------|
| SCSI Hard Drives | | | | | | | |
| Hitachi | Ultrastar 15K146 | HUS151414VL3800 | U320 SCSI SCA | 15,000 | 146GB | 1,2,3 | |
| Hitachi | Ultrastar 15K146 | HUS151414VL3600 | U320 SCSI 68 pin | 15,000 | 146GB | SD,SD,SD | |
| Hitachi | Ultrastar 15K73 | HUS151473VL3800 | U320 SCSI SCA | 15,000 | 73GB | SD,SD,SD | |
| Hitachi | Ultrastar 15K73 | HUS151473VL3600 | U320 SCSI 68 pin | 15,000 | 73GB | SD,SD,SD | |
| Hitachi | Ultrastar 15K36 | HUS151436VL3800 | U320 SCSI SCA | 15,000 | 36GB | SD,SD,SD | |
| Hitachi | Ultrastar 15K36 | HUS151436VL3600 | U320 SCSI 68 pin | 15,000 | 36GB | SD,SD,SD | |
| | | | | | | | |
| Parallel ATA (PATA) Hard Drives | | | | | | | |
| Hitachi | Deskstar 7K400 | HDS724040KLAT80 | ATA 100 | 7,200 | 400GB | 1,2,3 | |
| Hitachi | Deskstar 7K250 | HDS722516VLAT80 | ATA 100 | 7,200 | 160GB | 1,2,3 | |
| Hitachi | Deskstar 7K250 | HDS722512VLAT80 | ATA 100 | 7,200 | 120GB | SD,SD,SD | |
| Hitachi | Deskstar 7K250 | HDS722525VLAT80 | ATA 100 | 7,200 | 250GB | SD,SD,SD | |
| Maxtor | DiamondMax Plus 9 | 6Y200P0 | ATA 133 | 7,200 | 200GB | 1,2,3 | |
| Maxtor | DiamondMax Plus 9 | 6Y160P0 | ATA 133 | 7,200 | 160GB | SD,SD,SD | |
| Maxtor | DiamondMax Plus 9 | 6Y120P0 | ATA 133 | 7,200 | 120GB | SD,SD,SD | |
| Maxtor | DiamondMax Plus 9 | 6Y080P0 | ATA 133 | 7,200 | 80GB | SD,SD,SD | |
| Seagate | Barracuda 57ATA | ST3160023A | ATA 100 | 7,200 | 160GB (8MB cache) | 1,2,3 | |
| Seagate | Barracuda 57ATA | ST3120026A | ATA 100 | 7,200 | 120GB (8MB cache) | SD,SD,SD | |
| Seagate | Barracuda 57ATA | ST380013A | ATA 100 | 7,200 | 80GB (8MB cache) | SD,SD,SD | |
| Serial ATA (SATA) Hard Drives | | | | | | | |
| Maxtor | DiamondMax 10 | 6V120E0 | SATA-300 | 7,200 | 120GB | 1,2,3 | |
| Maxtor | DiamondMax 10 | 6V060E0 | SATA-300 | 7,200 | 60GB | SD,SD,SD | |
| Maxtor | DiamondMax 10 | 6V080E0 | SATA-300 | 7,200 | 80GB | SD,SD,SD | |
| Maxtor | DiamondMax 10 | 6V160E0 | SATA-300 | 7,200 | 160GB | SD,SD,SD | |
| Maxtor | DiamondMax 10 | 6V200E0 | SATA-300 | 7,200 | 200GB | SD,SD,SD | |
| Seagate | Barracuda 7 | ST3160023AS | SATA-150 | 7,200 | 160GB | 1,2,3 | |
| Seagate | Barracuda 7 | ST3120026AS | SATA-150 | 7,200 | 120GB | SD,SD,SD | |

| Manufacturer | Product Family | Model Number | Interface | RPM | Drive size (GB) | Tested Operating Systems | Notes |
|-----------------|----------------|-----------------|-----------|--------|-----------------|--------------------------|-------|
| Seagate | Barracuda 7 | ST3200822AS | SATA-150 | 7,200 | 200GB | SD,SD,SD | |
| Seagate | Barracuda 7 | ST380013AS | SATA-150 | 7,200 | 80GB | SD,SD,SD | |
| Hitachi | Deskstar 7K250 | HDS722525VLST80 | SATA-150 | 7,200 | 250GB | 1,2,3 | |
| Hitachi | Deskstar 7K250 | HDS722516VLST80 | SATA-150 | 7,200 | 160GB | SD,SD,SD | |
| Hitachi | Deskstar 7K250 | HDS722512VLST80 | SATA-150 | 7,200 | 120GB | SD,SD,SD | |
| Hitachi | Deskstar 7K250 | HDS722580VLST80 | SATA-150 | 7,200 | 80GB | SD,SD,SD | |
| Western Digital | WD Raptor | WD360GD | SATA-150 | 10,000 | 36GB | SD,SD,SD | |
| Western Digital | WD Raptor | WD740GD | SATA-150 | 10,000 | 74GB | 1,2,3 | |